

electrolysis of metals is disclosed, wherein the suspension bar is formed of a rigid metal outer jacket and a highly conductive core attached inside it. This connection results in, tight contact between the outer jacket and the core by drawing, upsetting, melting or casting.

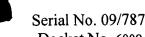
## IN THE CLAIMS

Please cancel Claims 4 and 8 without prejudice.

## Amend Claims 1-3 and 5-17 as follows:

(Amended) A method for manufacturing a suspension bar for a permanent cathode used in an electrolysis of metals, wherein the suspension bar is made of a rigid metal outer jacket and a highly electroconductive inner part inside it, after which the outer jacket is removed at least from one end of the bar, wherein a refined steel outer jacket and a highly electroconductive core are in close contact with each other wherein the parts of the bar are joined to each other by drawing, wherein the core is connected to the outer jacket by placing a core preform inside the outer jacket and by drawing an arbor through the preform in a drawing machine.

- 2. (Amended) The method according to claim 1, wherein the highly electroconductive core is copper.
- 3. (Amended) The method according to claim 1, wherein the highly electroconductive core is aluminum.
- 5. (Amended) The method according to claim 1, wherein a steel bar is used as the arbor.
  - 6. (Amended) The method according to claim 5, wherein the steel bar is left inside



the highly conductive core.

(Amended) The method according to claim 18, wherein the core is connected to the outer jacket by placing a core preform inside the outer jacket and by pressing the ends of the core, so that the core is expanded tight to the jacket.

- (Amended) The method according to claim 8, wherein casting is made using the 9. outer jacket as the mould into which the molten core metal is poured.
- (Amended) The method according to claim 20, wherein in order to obtain a 10. metallurgical bond between the jacket and the core, the core preform is placed in solid form inside the outer jacket and then the core is melted inside the outer jacket which remains in sufficiently solid form.
- (Amended) The method according to claim 19 or 10, wherein the outer jacket is 11. preheated before bonding.
- (Amended) The method according to claim 19 or (10), wherein the outer jacket and 12. the core are preheated during bonding.
- (Amended) The method according to claim 19 or 10, the outer jacket and the core 13. are preheated after bonding.
- (Amended) The method according to claim 19 or 10, wherein the outer jacket is 14. held in a vertical position with the bottom and closed when core metal is put into the jacket.
- 15. (Amended) The method according to claim 19, wherein casting is made by immersing the outer jacket into a melt of core metal.
- 16. (Amended) The method according to claim 15, wherein the outer jacket is immersed in the melt essentially in a horizontal position, and wherein the ends of the jacket are closed and holes are made in the upper part of the jacket for pouring the melt and releasing air.



17. (Amended) The method according to claim 15, wherein the outer jacket is immersed in the melt essentially in a vertical position, wherein the bottom end of the jacket is closed.

## Please add Claims 18 - 22 to read as follows:

--18. (New) A method for manufacturing a suspension bar for a permanent cathode used in an electrolysis of metals, wherein the suspension bar is made of a rigid metal outer jacket and a highly electroconductive inner part inside it, after which the outer jacket is removed at least from one end of the bar, wherein a refined steel outer jacket and a highly electroconductive core are in close contact with each other wherein the parts of the bar are joined to each other by upsetting.--

--19. (New) A method for manufacturing a suspension bar for a permanent cathode used in an electrolysis of metals, wherein the suspension bar is made of a rigid metal outer jacket and a highly electroconductive inner part inside it, after which the outer jacket is removed at least from one end of the bar, wherein a refined steel outer jacket and a highly electroconductive core are in close contact with each other wherein the parts of the bar are joined to each other by casting, and wherein in order to obtain a metallurgical bond between the jacket and the core, the core is attached to the jacket by casting it in molten form inside the solid jacket.--

--20. (New) A method for manufacturing a suspension bar for a permanent cathode used in an electrolysis of metals, wherein the suspension bar is made of a rigid metal outer jacket and a highly electroconductive inner part inside it, after which the outer jacket is removed at least from one end of the bar, wherein a refined steel outer jacket and a highly electroconductive core are in close contact with each other wherein the parts of the bar are joined to each other by

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